INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (second sheet) (July 1998)

International application No.

PCT/US03/34977

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06F 17/00; G06N 5/02 US CL : 706/47				
According to International Patent Classification (IPC) or to both national classification and IPC				
	DS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 706/47; 705/29, 364/468				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) ACM, IEEE				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.	
A	US 2002/0073001 A1 (Palmer et al) 13 June 2002 (1	3.6.2002).	1-5, 7-8, 12-22	
A	US 5,463,555 A (Ward et al) 31 October 1995 (31.10.1995).		1-8, 12-22	
A, E	US 2004/0024891 A1 (Agrusa et al) 05 February 2004 (5.2.2004).		1-5, 7-8, 11-22	
A	A Bradford, R. and Stuchler, J., The Role of Process Data in Controlling and Manufacturing Processes, IEEE Transactions on Manufacturing Technology Issue 1, pgs. 5-9.		1-5, 7-8, 11-22	
A	Long, E. and Misra, A., A Model-Based Engineering Process for Increasing Productivity in Discrete Manufacturing, Engineering of Computer-Based Systems, 24 March 1997, pgs. 197-202.		, 1-5, 7-8, 11-22	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents:		"T" later document published after the inte- date and not in conflict with the applic		
"A" document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the inve	ntion .	
"E" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	e art	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent if	····	
Date of the actual completion of the international search		Date of mailing of the international search report 1 4 APR 2004		
19 March 2004 (19.03.2004) Name and mailing address of the ISA/US		Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Anil Khatri Agnes R. Mathates Telephone No. (703) 305-3900		
	xandria, Virginia 22313-1450	· · ·		

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International application No.

PCT/US03/34977

Boy I Observations whose contain alice			
Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet) This international report has not been established in account for the sheet of the			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claim Nos.: 18 and 19			
because they relate to subject matter not required to be searched by this Authority, namely:			
Please See Continuation Sheet			
·			
2. Claim Nos.:			
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be corried out.			
an extent that no meaningful international search can be carried out, specifically:			
·			
3. Claim Nos.:			
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)			
(Continuation of Item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
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,			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
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As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
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No required additional access for			
110 requires additional search lees were timely paid by the applicant. Consequently, this is the			
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
temark on Protest			
No protest accompanied the payment of additional search fees.			
DCT/ICA / O10			

	PCT/US03/34977
INTERNATIONAL SEARCH REPORT	

Box 1 Observations where certain claims were found unsearchable 1. because they relate to subject matter not required to be searched by this Authority, namely:

77.

1. Claim 18 recites a method for providing a manufacturing control engine capable of receiving and processing data to generate manufacturing control instructions, which can be accomplished solely on a computer and does not appear to produce a concrete, tangible, and useful result.

Claim 19 further recite the step of providing a "data store" to store abstract "manufacturing rules" and "manufacturing environment conditions", which can also be accomplished solely on a computer and does not appear to produce a concrete, tangible, and useful result.

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